

REMARKS

Applicant has carefully reviewed and considered the Office Action mailed on October 2, 2003, and the references cited therewith.

Claims 1 and 5 are amended, no claims are canceled, and claims 27-32 are added; as a result, claims 1-32 are now pending in this application.

§102 Rejection of the Claims

Claims 1 and 5-9 were rejected under 35 USC § 102(b) as being anticipated by Weatherly (U.S. Patent No. 4,639,708). The rejection states that Weatherly discloses attaching a trace of conductive material to a film of insulating material and rolling the film around a mandrel (core 22) such that the trace of conductive material is circumferentially wrapped around a longitudinal axis. The rejection further states that Weatherly shows "a semi-rigid coaxial line that is hollow and round in cross section.

Weatherly appears to show a flexible sheet or substrate 12 with a pattern 10 printed in copper or other conductive materials. However, Weatherly appears to show only a single wrap of the flexible sheet 12 to form a cylinder 20 (col. 2, lines 4-12). Weatherly does not show rolling a film to circumferentially wrap a trace of conductive material **more than one revolution** around a longitudinal axis of rolling. Weatherly also appears to show wrapping the sheet 12 around an electrically insulating hollow cylinder core 22. However, Weatherly does not show **attaching** a film to a mandrel. Additionally, Weatherly does not show rolling the film around a mandrel wherein the mandrel comprises a semi-rigid **coaxial line**. Applicant respectfully submits that a coaxial line typically includes conductors that have the same longitudinal axis (coaxial).

In contrast, claims 1 and 5 as amended include rolling a film to circumferentially wrap a trace of conductive material more than one revolution around a longitudinal axis of rolling. Further in contrast, claim 8 includes rolling a film around a mandrel wherein the mandrel comprises a semi-rigid coaxial line. Further in contrast, claim 9 includes attaching a film to a mandrel.

Because the Weatherly reference does not show every element of Applicant's independent claims, a 35 USC § 102(b) rejection is not supported. Reconsideration and

withdrawal of the rejection is respectfully requested with respect to Applicant's independent claims 1, 5, and 9. Additionally, reconsideration and withdrawal of the rejection is respectfully requested with respect to the remaining claims that depend therefrom as depending on allowable base claims.

Claims 1, 5, 6, 8, and 9 were rejected under 35 USC § 102(b) as being anticipated by McGaffigan (U.S. Patent No. 5,526,561). The rejection states that McGaffigan discloses a mandrel that "is round in cross section and has a semi-rigid coaxial line along a bottom surface."

McGaffigan appears to show wires 96 wrapped around a D-shaped mandrel 92. McGaffigan further appears to show ends of wires 14 soldered to copper bands 8. Bands 8 do not appear to form a mandrel. Nothing in McGaffigan appears to be attached to, or soldered to a mandrel. Embodiments of McGaffigan all appear to form a C-shape around a form. No windings of McGaffigan appear to be wound **more than one revolution** around a longitudinal axis of rolling. McGaffigan also does not show rolling a film around a mandrel wherein the mandrel comprises a semi-rigid **coaxial line**.

In contrast, claims 1 and 5 as amended include rolling a film to circumferentially wrap a trace of conductive material more than one revolution around a longitudinal axis of rolling. Further in contrast, claim 8 includes rolling a film around a mandrel wherein the mandrel comprises a semi-rigid coaxial line. Further in contrast, claim 9 includes attaching a film to a mandrel.

Because the McGaffigan reference does not show every element of Applicant's independent claims, a 35 USC § 102(b) rejection is not supported. Reconsideration and withdrawal of the rejection is respectfully requested with respect to Applicant's independent claims 1, 5, and 9. Additionally, reconsideration and withdrawal of the rejection is respectfully requested with respect to the remaining claims that depend therefrom as depending on allowable base claims.

§103 Rejection of the Claims

Claims 2-4 were rejected under 35 USC § 103(a) as being unpatentable over Weatherly or McGaffigan in view of Fukutomi (U.S. Patent No. 5,426,850). Applicant respectfully submits

that the additional reference of Fukutomi fails to cure the deficiencies of Weatherly and McGaffigan as outlined above.

Because the cited references, either alone or in combination, do not show every element of Applicant's independent claims, a 35 USC § 103(a) rejection is not supported by the references. Reconsideration and withdrawal of the rejection is respectfully requested with respect to Applicant's independent claims 1 and 9. Additionally, reconsideration and withdrawal of the rejection is respectfully requested with respect to the remaining claims that depend therefrom as depending on allowable base claims.

Claim 10 was rejected under 35 USC § 103(a) as being unpatentable Weatherly in view of McGaffigan. Applicant respectfully submits that Weatherly and McGaffigan, either alone or in combination, do not show every element of Applicant's independent claims pursuant to arguments presented above. As such, a 35 USC § 103(a) rejection is not supported by the references. Reconsideration and withdrawal of the rejection is respectfully requested with respect to claim 10.

Conclusion

Applicant respectfully submits that the claims are in condition for allowance and notification to that effect is earnestly requested. The Examiner is invited to telephone Applicant's attorney at (612) 373-6944 to facilitate prosecution of this application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 19-0743


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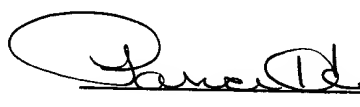
Date 12-31-03

By 
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CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 31st day of December, 2003.

PATRICIA A. HULTMAN

Name


Signature